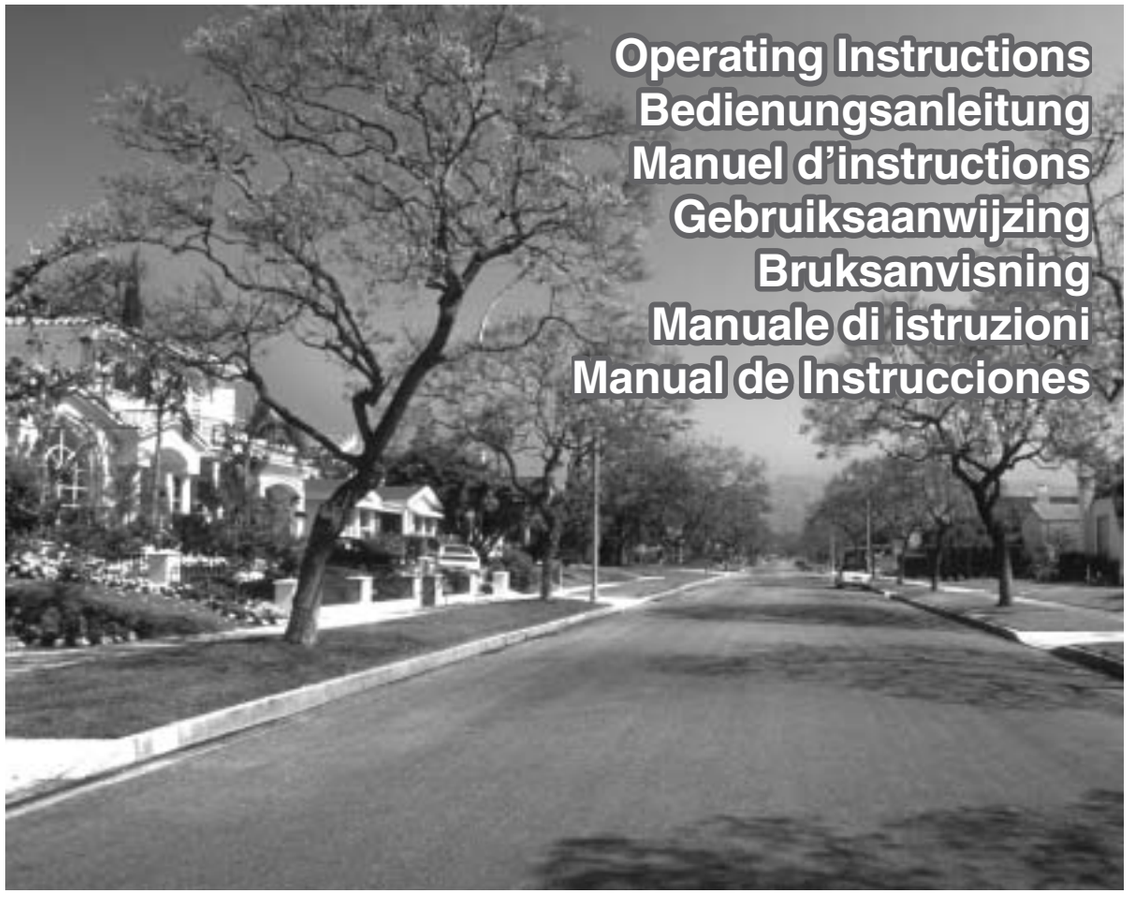
Panasonic

Removable Front Panel MP3 WMA CD Player/Receiver with CD Changer Control

CQ-RDP383N



- Please read these instructions carefully before using this product and keep this manual for future reference.
- Bitte lesen Sie diese Bedienungsanleitung vor der Verwendung dieses Produktes aufmerksam durch und bewahren Sie sie danach für spätere Nachschlagzwecke sorgfältig auf.
- Prière de lire ces instructions attentivement avant d'utiliser le produit et garder ce manuel pour l'utilisation ultérieure.
- Leest u deze instructie alstublieft zorgvuldig door voor u dit product in gebruik neemt en bewaar deze handleiding voor later gebruik.
- Läs igenom denna bruksanvisning noga innan produkten tas i bruk. Spara bruksanvisningen för framtida behov.
- Si prega di leggere attentamente queste istruzioni prima di usare questo prodotto e di conservare questo manuale per usi futuri.
- Lea con atención estas instrucciones antes de utilizar el producto y guarde este manual para poderlo consultar en el futuro.

Matsushita Electric Industrial Co., Ltd.
Web Site :http://www.panasonic.co.jp/global/

YEFM284011 ND0203-1023 Printed in China

Panasonic welcomes you to their constantly growing family of electronic products owners.
We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

Precautions

Volume Level
For your driving safety, keep the volume level low enough to be aware of road and traffic conditions.

Car Washing
To avoid electrical shorts which may cause fire, or other damage, do not expose this product (including the speakers and CDs) to water or excessive moisture.

Car Ventilation
If your car is parked for several hours in direct sunlight, the temperature inside the car may become very high. It is advisable to drive the car and give the interior a chance to cool down before switching the unit on.

Power Supply
This product is designed to be used in a car having a 12-Volt negative ground battery system.

Disc Mechanism
Do not insert coins or any small objects. Keep screwdrivers and other metallic objects away from the disc mechanism and disc.

Service
This product is made of precision parts. Do not attempt to disassemble or adjust any parts. For repair, please consult your nearest authorized Panasonic Service Center.

Note: The preset memory is cleared to return to the original factory setting when the power connector or battery is disconnected.

Laser Product

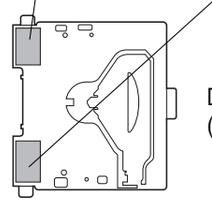
Label Indications and Their Locations

CAUTION
LASER RADIATION
WHEN OPEN.
DO NOT STARE INTO BEAM.

CLASS 1 LASER PRODUCT
- APPREIL À LASER DE CLASSE
- KLASS 1 LASER APPARAT
- LUOKAN 1 LASERPLAITE

Caution Label

VARO! AVATTAESSA OLET ALTTIINA LASER-SÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN.	CAUTION LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.
VARNING LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN.	VORSICHT LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT IN DEN STRAHL BLICKEN.
ADVARSEL LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN.	ATTENTION RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
	ADVARSEL LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN.



Deck Ass'y
(Upper Side)

Caution: This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

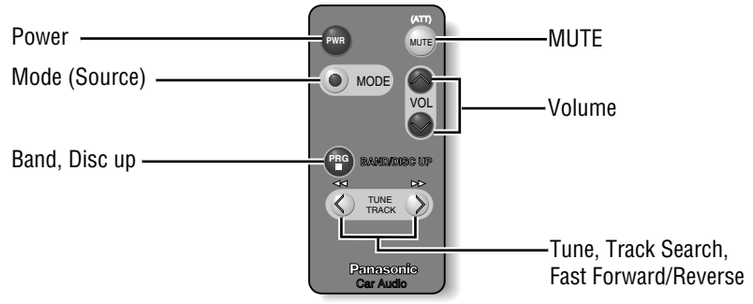
Laser products:
Wave Length 780 nm
Laser Power No hazardous radiation is emitted with safety protection.

Do not take apart this unit or attempt to make any changes yourself.
This unit is a very intricate device that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet.
Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

Accessories

- Operating Instructions 1
- Supplied Hardware ..... 1 set (➡ page 26)
- Warranty Card 1
- Removable face plate case 1

Remote Control Unit (Option)



Note: Optional remote controller is available from your local dealer. (CA-RC61EX).

General

[MUTE] (LOUD)

[<] [>]
(Adjust HOUR/MINUTE)

Power

Turn your car's ignition key to ACC or ON position.

ON : Press **[SRC] (POWER)**.
OFF : Press and hold **[SRC] (POWER)** for more than 2 seconds.

Opening Message
"WELCOME" is displayed when the power is switched on.

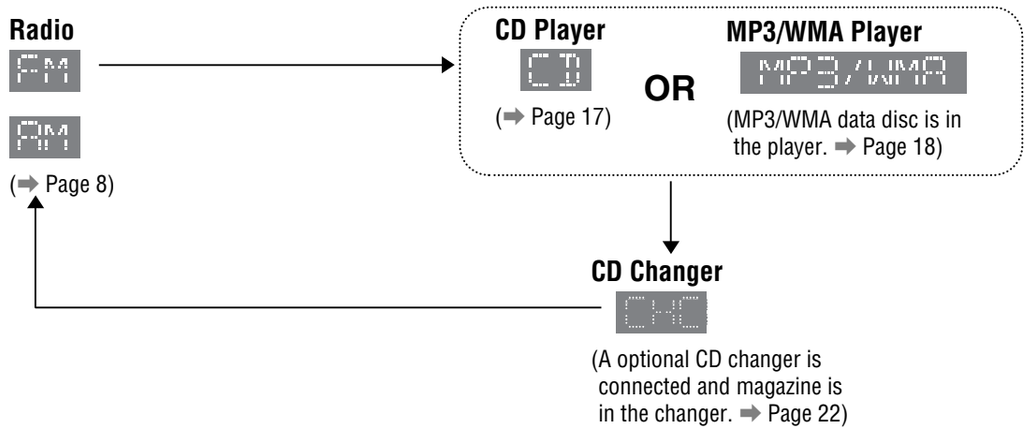
Demonstration Message
When the power is switched on **for the first time**, a demonstration message appears on display.

Scrolling....

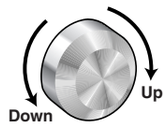
To cancel this display,Press [DISP] (Display)

Source

Press **[SRC]** (Source) to change the source.



Volume



Setting Range : 0 to 40

Note: The volume level can be set independently for each source. (For radio, one volume setting for AM, one volume setting for all FMs)

Mute MUTE

ON : Press **[MUTE]** to mute the sound completely.
OFF : Press again.

MUTE indicator

Loudness LOUD

ON : Press and hold **[MUTE] (LOUD)** for more than 2 seconds to enhance bass and treble tones at low or medium volume.
OFF : Press and hold again.

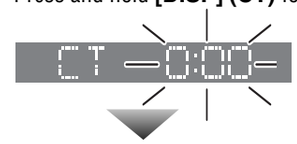
LOUD indicator

Clock Setting

Note: Adjust the clock when "NO CT" appears on the screen.

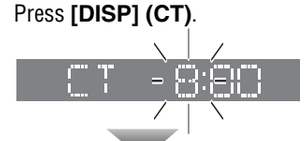
Select the radio AM mode. (➡ Page 8)

Press and hold **[DISP] (CT)** for more than 2 seconds.

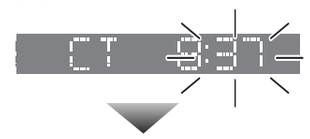


Adjust HOUR.
[>] : put forward hour.
[<] : put back hour.

Press **[DISP] (CT)**.



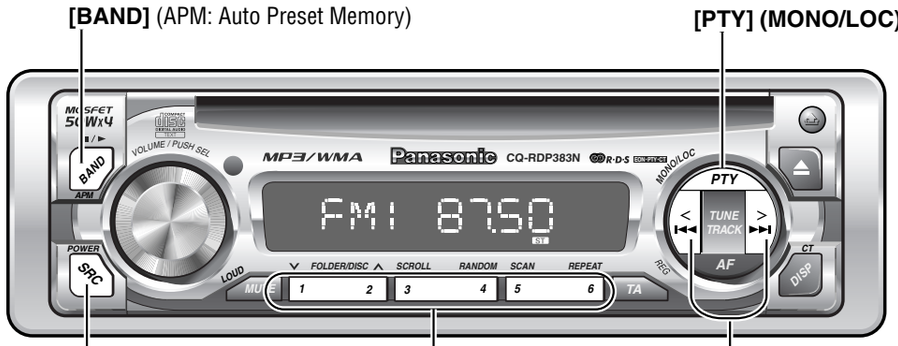
Adjust MINUTE.
[>] : put forward minute.
[<] : put back minute.



Press **[DISP] (CT)**.

Note: When a broadcast of FM Radio Data System is received, the clock is put right automatically by the Clock Time service. (➡ Page 10)

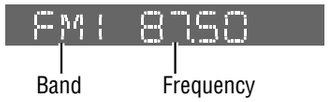
Radio



1 Radio Mode

Press **[SRC]** (Source) to select the radio mode.

Radio Mode Display



2 Band

Press **[BAND]** to change the bands.

3 Tuning

[>] : Higher frequency
[<] : Lower frequency
Press and hold **[>]** or **[<]** for more than 0.5 seconds, then release. Seeking will start.

FM Stereo Indicator ST
Lights up during reception of FM stereo broadcast

4 Mono/Local Selection

MONO : Monaural reception. Select MONO to reduce noise when receiving a weak stereo broadcast.

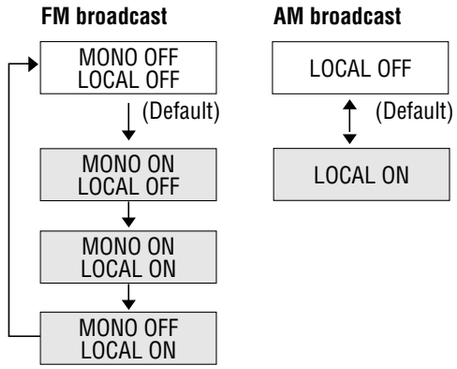
LOCAL : Tunes in strong stations only.

FM broadcasts

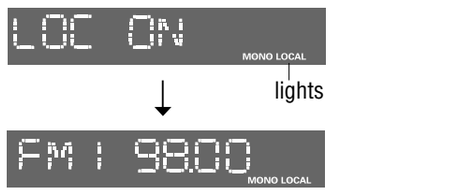
Press and hold **[PTY] (MONO/LOC)** for more than 2 seconds to change the mode.

AM broadcast

Press **[PTY] (MONO/LOC)** to switch LOCAL mode on and off.



MONO/LOCAL indicator
Example: MONO ON/LOCAL ON MONO LOCAL



Station Preset

Up to 6 stations can be stored in each of the FM1, FM2, FM3 and AM (LW/MW) band selections.

Auto Preset Memory

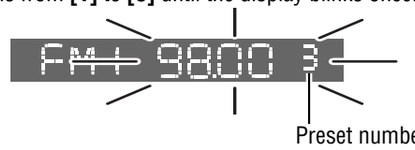
Caution: To ensure safety, never attempt to preset stations while you are driving.

Automatically save stations with good reception in the preset memory.
① Press **[BAND]** to select a band.
② Press and hold **[BAND]** (APM: Auto Preset Memory) for more than 2 seconds.
The 6 stations with good reception will be automatically saved in the memory under preset number **1** to **6**.
Once set, the preset stations are sequentially scanned for 5 seconds each.

Notes:
- To stop the scanning, press one of the buttons from **[1]** to **[6]**.
- New stations overwrite existing saved stations after following this procedure.
- Only RDS stations will be saved at default setting (AF ON). **To select non RDS stations too, set AF OFF.** (➡ Page 11)

Manual Preset Memory

Manually save a station in preset memory.
① Use manual or seek tuning to find a station.
② Press and hold one of the preset buttons from **[1]** to **[6]** until the display blinks once.



Preset Station Calling

① Press **[BAND]** to select a band.
② Press the corresponding preset button from **[1]** to **[6]** to select a preset station.

Radio Data System (RDS)

RDS Basics

Some FM stations are broadcasting added data compatible with RDS. This radio set offers convenient functions using such data.
RDS service availability varies with areas. Please understand if RDS service is not available in your area, the following service is not available, either. This chapter explains the summary and operation regarding RDS.
The following functions are available when receiving RDS stations.

Program Service Name (PS) Display

The name of station is displayed.

Alternative Frequency (AF)

When reception is poor, an RDS station broadcasting the same program is tuned in automatically.

Traffic Program (TP)

Some RDS FM stations periodically provide traffic announcement.
The station which broadcast the traffic announcement is called Traffic Program (TP).

Traffic Announcement (TA)

Radio announcements on traffic conditions.

Clock Time (CT) Service

When receiving an RDS station, the CT service automatically adjusts the time.
“NO CT” is displayed in areas where CT service is not available. (➡ Page 7 for Clock Setting)

Program Type (PTY) Display

RDS FM stations provide a program type identification signal.
Example: news, rock, classical music, etc. (➡ Page 13)

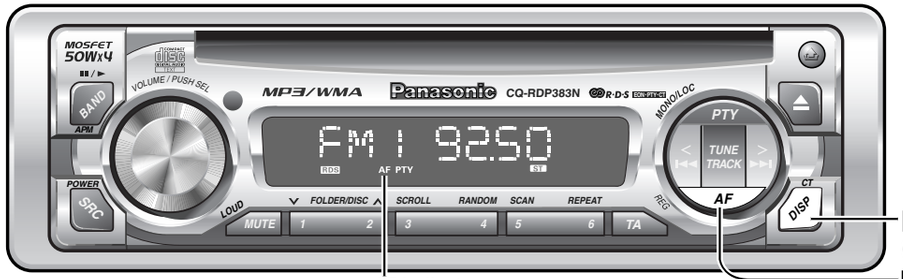
Program Identification (PI)

Each program has its own number. This may be used to search for another frequency on which the same program is broadcast.

Region (REG)

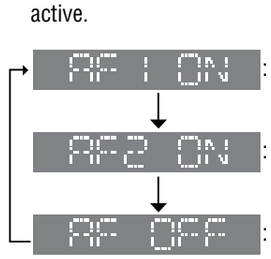
Each region has its own number. This may be used to identify the region where the station you are now listening to is located.

Alternative Frequency (AF)



Alternative Frequency (AF) Mode AF

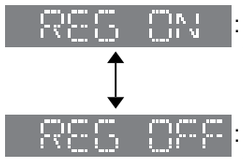
Press **[AF]** to select one of the following AF modes.
AF ON : AF, Best Station Research and PI seek function are active.



: Low level AF operating sensitivity. (Default)
: High level AF operating sensitivity.
: When the AF network of an RDS station is not required.

REG (Region) Mode

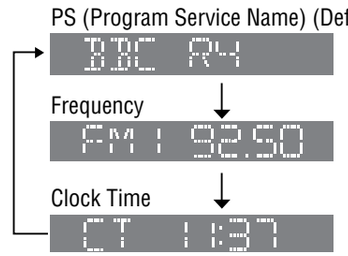
Changes the selection range of AF, Best Station Research and PI seek.
Press and hold **[AF] (REG)** for more than 2 seconds to switch on and off.



: The frequency is changed only for programs within the region.
: The frequency is changed also for programs outside the region. (Default)

Display Change

Press **[DISP]** to change the display as follows.



Preset Memory (AF ON Setting)

Preset Station Calling (Best Station Research)
AF self-tuning selects a station with good reception when the preset tuning is activated.

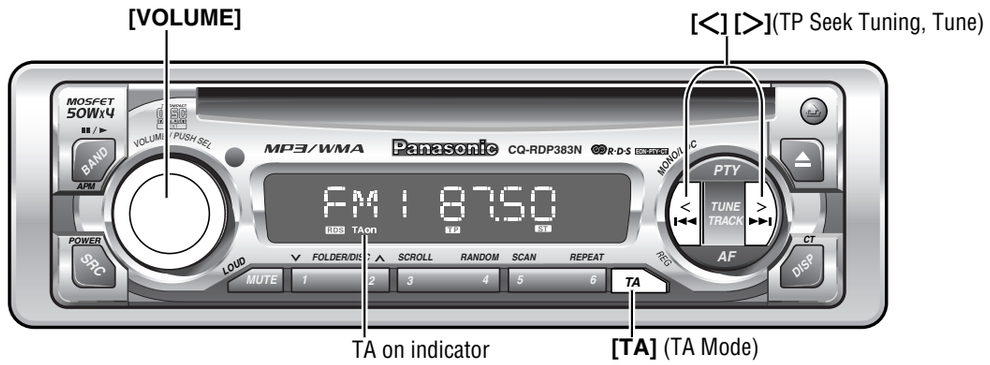
For Poor Reception (PI Seek)

If reception becomes poor when tuning in a preset station, press the same preset number button. The same station with better reception will be searched for.
Press the same preset number button again to cancel.
Note: For PI Seek, cancel the TA mode first, then execute PI Seek.

Radio Data System (RDS) (continued)

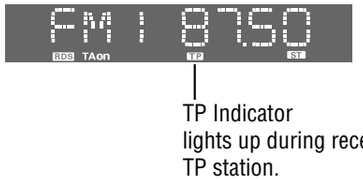
Traffic Announcement (TA)

Some RDS FM stations periodically provide traffic information.



TA Mode TAon (Default: OFF)

Press **[TA]** to switch TA mode on and off.
If the station received is not a TP station, the unit automatically searches for a TP station to tune in to it. When the TP station received begins a traffic announcement, you can hear it from the unit.



TP Indicator
lights up during reception of TP station.

TA Standby Mode

When set to TA on with the unit in another mode (CD, MP3/WMA, CD changer), it will automatically switch to radio mode and output the traffic announcement.
When the traffic announcement has finished, the unit will return to the previous mode.

To listen to only traffic announcements

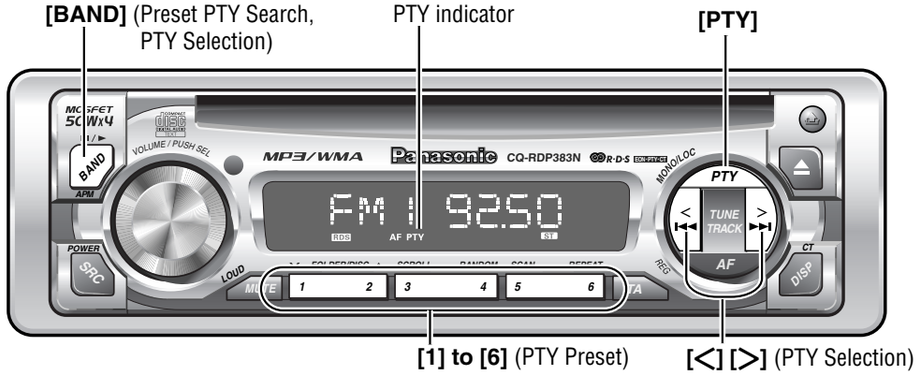
While listening to an FM station which is not currently broadcasting traffic announcement, turn the **[VOLUME]** to the counterclockwise to set the volume to 0. The traffic announcement will be output at the TA volume level.

Other TA functions

TA Volume Set: Press **[SEL]** to select the TA Volume mode. Turn the **[SEL]** change the each level.
(➡ Page 24 for TA Volume Set.)
TP Seek Tuning: When TA ON is selected, only TP station will be searched.
Press and hold **[<]** or **[>]** for more than 0.5 seconds, then release. Seeking will start.
TP Auto Preset Memory: When TA ON is selected, only TP station will be memorized automatically. (➡ Page 9 for auto preset memory)
TP Auto Search: When reception of a TP station becomes poor, TP Auto Search will automatically search for a TP station with better reception.

Program Type (PTY) Reception

RDS FM stations provide a program type identification signal. (Example: news, rock, classical music, etc.)



Program Type (PTY) Mode PTY

Press **[PTY]** to switch the PTY display mode on and off.
The PTY function described below becomes enabled after selecting to the PTY mode.

PTY Selection

① Press **[>]** to change the program type as shown below.
(**[<]** : opposite direction)

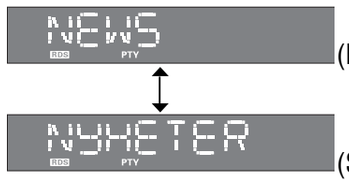
SPEECH	MUSIC	NEWS	AFFAIRS
INFO	SPORT	EDUCATE	DRAMA
CULTURE	SCIENCE	VARIED	POP_M
ROCK_M	EASY_M	LIGHT_M	CLASSICS
OTHER_M	WEATHER	FINANCE	CHILDREN
SOCIAL	RELIGION	PHONE_IN	TRAVEL
LEISURE	JAZZ	COUNTRY	NATION_M
OLDIES	FOLK_M	DOCUMENT	

② Select the desired program type and press **[BAND]**.
Seek will start to tune in to a station broadcasting the selected program type.

Press **[BAND]** again to cancel.

PTY display in Swedish

Press and hold **[SEL]** to open the PTY display language.
Turn **[SEL]** to switch the language as follows.



PTY Preset

PTY Preset Call

Program types are stored in memory under preset buttons from **[1]** to **[6]** as shown in the tables on the next page.
To tune in the desired program type, press any of preset buttons from **[1]** to **[6].**

Preset PTY Search

① Select a program type by pressing the preset button.
The preset program type appears on the display for 5 seconds.
Example: Press preset button **[1]**.

② Press the same preset button again (or press **[BAND]**) to tune in the desired program type station.
Example: Press preset button **[1]** again.
Press **[BAND]** again to cancel.

Note: When there is no corresponding program type station, “NONE” is displayed for 2 seconds.

PTY Preset Change

① Select a program type by using PTY Selection or pressing PTY Preset buttons.
② Press and hold one of the buttons from **[1]** to **[6]** for more than 2 seconds.
Example: Press and hold preset button **[2]** for more than 2 seconds.

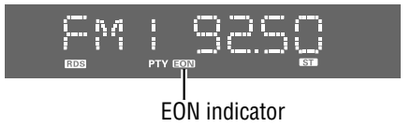
Radio Data System (RDS) (continued)

PTY Preset (Default)

Preset No.	Program Type	When PTY search is activated, these program type is receivable.
1	NEWS	NEWS
2	SPEECH	AFFAIRS, INFO, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, DOCUMENT
3	SPORT	SPORT
4	POP_M	POP_M
5	CLASSICS	CLASSICS
6	MUSIC	ROCK_M, EASY_M, LIGHT_M, OTHER_M, JAZZ, COUNTRY, NATION_M, OLDIES, FOLK_M

Other RDS functions

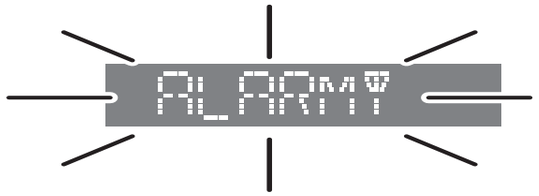
Enhanced Other Network (EON) EON



When EON data is received, the EON indicator lights the TA and AF functions are expanded as follows.
TA: Traffic information from the current and other network stations can be received.
AF: The frequency list of preset RDS stations is updated by EON data.
EON enables the radio to make fuller use of RDS information. It constantly updates the AF list of preset stations, including the one that is currently tuned in to. For example, if you preset a station far from home, you will later be able to receive the same station at an alternative frequency, or any other station serving the same program. EON also keeps track of locally available TP stations for quick reception.

Emergency Announcement Reception

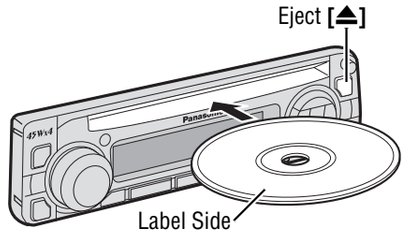
When an emergency announcement is broadcast, the unit is automatically switched to receiving that broadcast. (Even when in CD mode, MP3/WMA mode, CD changer mode.) During receiving the emergency announcement, “ALARM!” appears on the display.



Note: Emergency announcements are broadcast at the TA volume level. (➡ Page 24)

CD and MP3/WMA

Disc Insert and Playback



Insert a disc.
The unit identifies CD-DA data or MP3/WMA data,and Plays it.

READING **Data reading.**

→ CD **Ordinary music CD recognized and playback starts.**

or

→ MP3/WMA **MP3/WMA data recognized and playback starts.**

(➡ page 18 about MP3/WMA player)

Cautions:

- Do not use irregularly shaped discs.
- Do not use discs that have a seal or label attached.
- Do not insert foreign matter into the disc slots.
- **Do not insert a disc** when DISC indicator lights because a disc is already loaded.

Note: As checking of files takes longer, do not record any unnecessary folders or files other than MP3s/WMAs on the disc.

Stop and Disc Eject

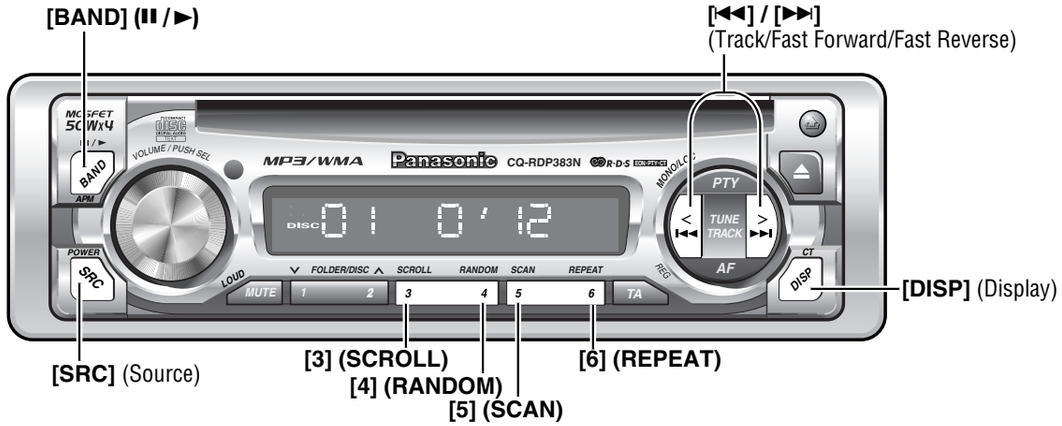
Press **[⏏]** to stop CD/MP3/WMA play and eject the disc .

CD Player

Available Discs

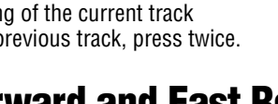
CD-R CD-RW TEXT

Note: Refer to the section on "Notes on CD-Rs/RWs" (➡ Page 33).



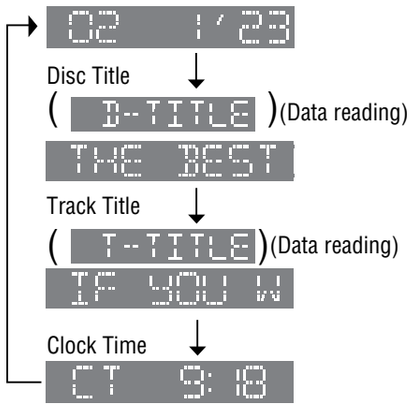
When a disc is in the player...

Press **[SRC]** (Source) to select the CD player mode and playback starts.



Display Change

Press **[DISP]**.
Caution: Do not watch the scroll display while driving.



Notes:

- "NO TITLE" is displayed when there is no information on the disc.
- Press **[3] (SCROLL)** to have an another circle scroll while a title is displayed.

Track Selection

[⏭]: Next track
[⏮]: Beginning of the current track
For the previous track, press twice.

Fast Forward and Fast Reverse

Press and hold
[⏭] (►►): Fast Forward
[⏮] (◄◄): Fast Reverse
Release to resume the playback.

Pause (II / ►)

Press **[BAND] (II / ►)** to pause.
Press **[BAND] (II / ►)** again to resume playback.

PAUSE

Random Play R►

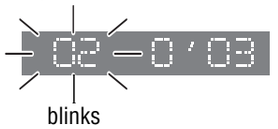
The tracks are played in a random sequence.
Press **[4] (RANDOM)**.

Press again to cancel.

RAND OFF

Scan Play

The first 10 seconds of each track are played in sequence.
Press **[5] (SCAN)**.



Press again to cancel.

SCAN OFF

Repeat Play REP

The current track is repeated.
Press **[6] (REPEAT).**

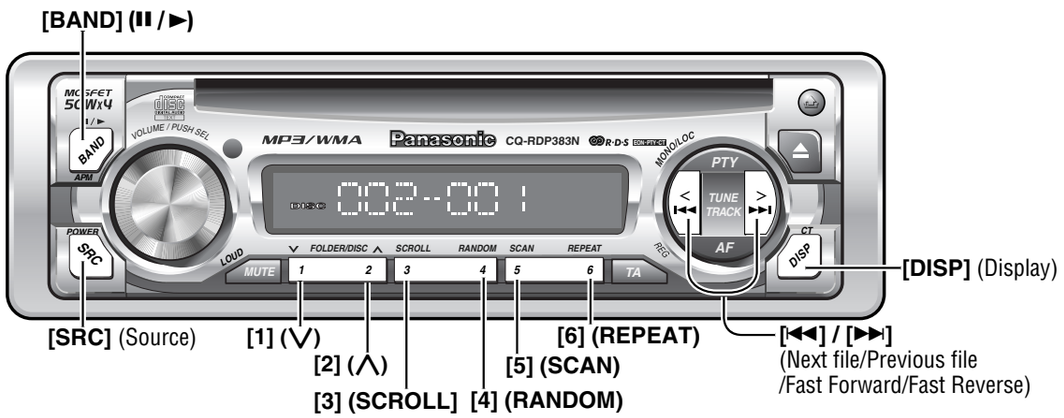
REP ON

Press again to cancel.

REP OFF

MP3/WMA Player

See page 16 about Disc Insert and disc ejecting.



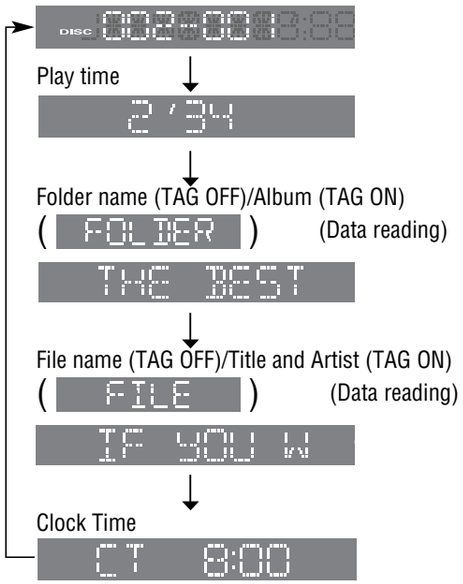
When disc is in the player

Press **[SRC]** (Source) to select the MP3/WMA player mode and playback starts.

Folder File

Display Change

Caution: Do not watch the scroll display while driving.
Press **[DISP]**.



Notes:

- "NO NAME" is displayed when there is no information on the disc.
- Press **[3] (SCROLL)** to have an another circle scroll while a title is displayed.

ID3/WMA Tag

Information of ID3/WMA tag can be displayed. An album title instead of a folder title and an artist name instead of a file title can be displayed.
Press and hold **[3]** for more than 2 seconds.

Press and hold again to cancel.

Folder Selection

[⋀] : Next folder
[⋁] : Previous folder

File Selection

[►►I] : Next MP3/WMA file
[I◄◄] : Beginning of the current MP3/WMA file.
For the previous file,Press twice

Fast Forward and Fast Reverse

Press and hold
[►►I] (►►) : Fast Forward
[I◄◄] (◄◄) : Fast Reverse
Release to resume normal playback.

Pause (II / ►)

[BAND] (II / ►) : Pause.
Press **[BAND] (II / ►)** again to resume playback.

Available Discs

MP3 CD-R | MP3 CD-RW | MP3 CD-ROM | WMA CD-R | WMA CD-RW | WMA CD-ROM

Note: Refer to the section on "Notes on MP3/WMA" (➡ Page 20) and "Notes on CD-Rs/RWs" (➡ Page 33).

Random Play R►

The files are played in a random sequence.

All Files

Press **[4] (RANDOM)**.

lights

Press again to cancel.

All files in the current folder

Press and hold **[4] (RANDOM)** for more than 2 seconds.

blinks

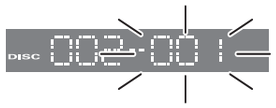
Press and hold again to cancel.

Scan Play

The first 10 seconds of each file are played in sequence.

All Files

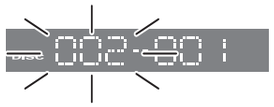
Press **[5] (SCAN)**.



Press again to cancel.

1st file in each folder

Press and hold **[5] (SCAN)** for more than 2 seconds.



Press and hold again to cancel.

Repeat Play REP

Current file

Press **[6] (REPEAT)**.

lights

Press again to cancel.

Current folder

Press and hold **[6] (REPEAT)** for more than 2 seconds.

blinks

Press and hold again to cancel.

MP3/WMA Player (continued)

Notes on MP3/WMA

What is MP3/WMA?

MP3 (MPEG Audio Layer-3) and WMA (Windows Media™ Audio) are the compression formats of digital audio. The former is developed by MPEG (Motion Picture Experts Group), and the latter is developed by Microsoft Corporation. Using these compression formats, you can record the contents of about 10 music CDs on a single CD media (This figures refer to data recorded on a 650MB CD-R or CD-RW at a fixed bit rate of 128 kbps and a sampling frequency of 44.1 kHz).

Notes:

- MP3/WMA encoding and writing software is not supplied with this unit.
- CD writing software is not supplied with this unit.

Points to remember when making MP3/WMA files

Common

- High bit rate and high sampling frequency are recommended for high quality sounds.
- Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and sound may be skipped.
- The playback sound quality differs depending on the encoding circumstances. For details, refer to the user manual of your own encoding software and writing software.

MP3

- It is recommended to set the bit rate to “128 kbps or more” and “fixed”.

WMA

- It is recommended to set the bit rate to “64 kbps or more” and “fixed”.
- Do not set the copy protect attribute on the WMA file to enable this unit to play back.

Caution: **Never assign the “mp3”, or “wma” file name extension to a file that is not in the MP3/WMA format. This may not only produce noise from the speaker damage, but also damage your hearing.**

Display Information

Displayed items

CD-TEXT
- Disc title
- Track title

MP3/WMA
- Folder name
- File name

MP3 (ID3 tag)
- Album
- Title and Artist

WMA (WMA tag)
- Album
- Title and Artist

Displayable characters

- Displayable length of file name/folder name: within 96 characters
- Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software for details.
- ASCII character set and special characters in each language can be displayed.

ASCII character set

A to Z, a to z, digits 0 to 9, and the following symbols:
(space) ! ” # $ % & ’ ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~

Special characters

À Á Â Ã Å à á â ã å
Ä ä
Ò Ó Ô Õ Ö ò ó ô õ ö
Ù Ú Û Ü ù ú û ü

Notes:

- With some software in which MP3/WMA format files have been encoded, the character information may not be displayed properly.
- Undisplayable characters and symbols will be converted into an asterisk(■).

Recording MP3/WMA files on a CD-media

- **You are recommended to minimize the chances of making a disc that contains both CD-DA files and MP3/WMA files.**
- **If CD-DA files are on the same disc as MP3 or WMA files,the songs may not play in the intended order, or some songs may not play at all.**
- **When storing MP3 data and WMA data on the same disc, use different folders for each data.**
- Do not record files other than MP3/WMA files and unnecessary folder on a disc.
- The name of MP3/WMA file should be added by rules as shown in the following descriptions and also comply with the rules of each file system.
- You may encounter trouble in playing MP3/WMA files or displaying the information of MP3/WMA files recorded with certain writing software or CD recorders.
- The file extension “mp3” or “wma” should be assigned to each file depending on the file format.
- This unit does not have the play list function.
- Although Multi-session recording is supported, the use of Disc-at-Once is recommended.

Supported file systems

ISO 9660 Level 1/Level 2, Apple Extension to ISO 9660, Joliet, Romeo

Note: Apple HFS, UDF 1.50, Mix CD(CD Extra) is not supported.

Compression formats (Recommendation: “Points to remember when making MP3/WMA files” on the previous page **)**

Compression method	Bit rate	VBR	Sampling frequency
MPEG 1 audio layer 3 (MP3)	32k-320 kbps	Yes	32, 44.1, 48 kHz
MPEG 2 audio layer 3 (MP3)	8k-160 kbps	Yes	16, 22.05, 24 kHz
Windows Media Audio Ver. 2, Ver. 8	64k-192 kbps	No	32, 44.1, 48 kHz

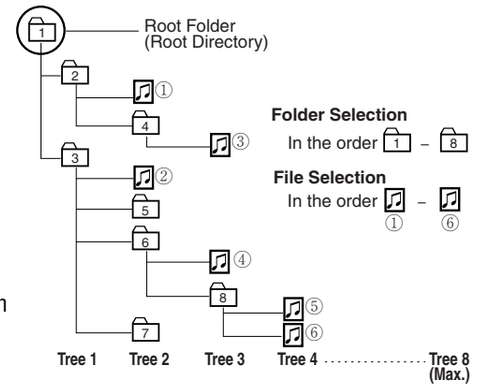
Folder selection order/file playback order

Maximum number of files/folders

- Maximum number of files/folders: 999 (files + folders)
- Maximum number of files in one folder: 255
- Maximum depth of trees: 8
- Maximum number of folders: 255 (Root folder is included.)

Notes:

- This unit counts the number of folders irrespective of the presence or absence of MP3/WMA file.
- If the selected folder does not contain any MP3/WMA files, the nearest MP3/WMA files in the order of playback will be played.
- Playback order may be different from other MP3/WMA players even if the same disc is used.
- “ROOT” appears when displaying the root folder name.



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Designed for Windows Media™

Copyright

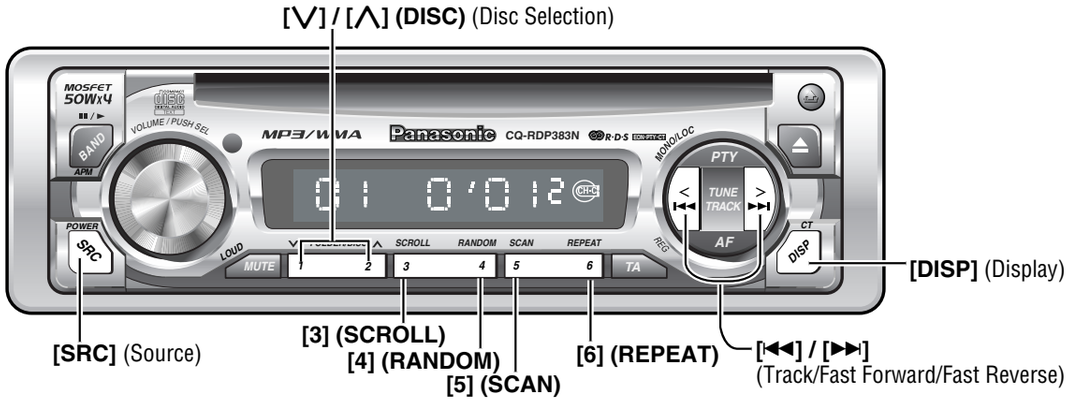
It is prohibited by copyright laws to copy, distribute and deliver copyrighted materials such as music without the approval of copyright holder except enjoying yourself personally.

No warranty

Above description complies with our investigations as of December 2002. It has no warranty for reproducibility and displayability of MP3/WMA.

CD Changer Control

CD changer functions are designed for optional Panasonic CD changer unit.

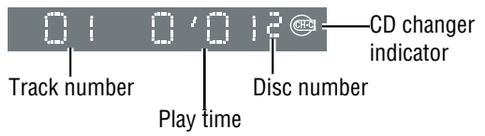


Insert the Magazine

Playback starts.

When magazine is in the changer...

Press **[SRC]** (Source) to select the CD changer mode and playback starts.

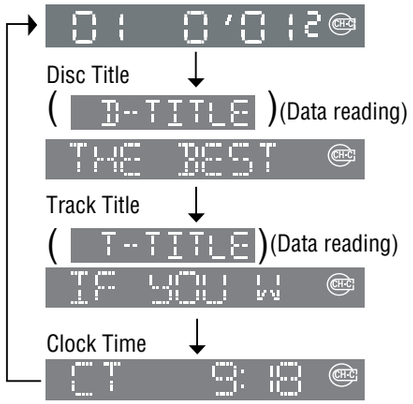


Note: Load a magazine with CDs when "NO DISC" is displayed.

Display Change

Press **[DISP]**.

Caution: Do not watch the scroll display while driving.



Notes:

- "NO TITLE" is displayed when there is no information on the disc.
- Press **[3] (SCROLL)** to have an another circle scroll while a title is displayed.

Disc Selection

[Λ]: Next disc
[V]: Previous disc

Track Selection

[⏭]: Next track
[⏮]: Beginning of the current track.
For the previous track, Press twice

Fast Forward and Fast Reverse

Press and hold
[⏭] (►►): Fast Forward
[⏮] (◄◄): Fast Reverse
Release to resume the playback.

Notes:

- **CD text is displayed when the unit is connected to a CD changer capable of recognizing CD text (CX-DP9061EN).**
- **Not compatible with CD-RW (except when CX-DP880N is connected).**
- **Not compatible with MP3/WMA.**
- **Trouble may occur while playing CD-Rs. Refer to the section on "Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)"**(➡ Page 33)

Random Play R►

The tracks are played in a random sequence.

All tracks

Press **[4] (RANDOM)**.

lights

Press again to cancel.

All tracks on the current disc

Press and hold **[4] (RANDOM)** for more than 2 seconds.

blinks

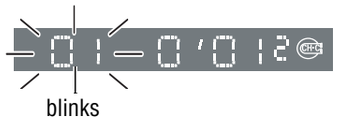
Press and hold again to cancel.

Scan Play

The first 10 seconds of each track are played in sequence.

All tracks

Press **[5] (SCAN)**.



blinks

Press again to cancel.

1st track on each disc

Press and hold **[5] (SCAN)** for more than 2 seconds.

blinks

Press and hold again to cancel.

Repeat Play REP

Current track

Press **[6] (REPEAT)**.

lights

Press again to cancel.

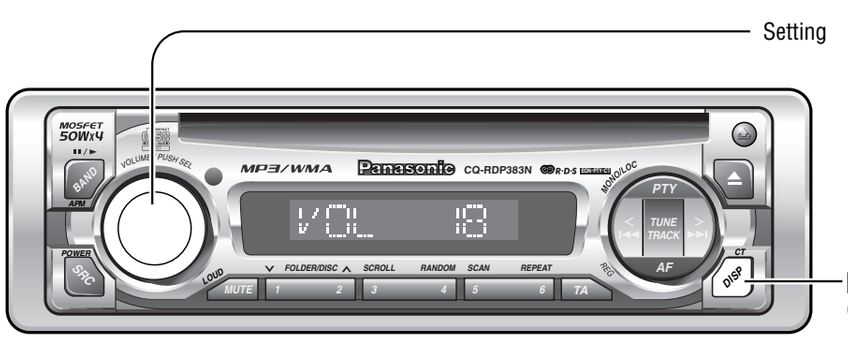
Current disc

Press and hold **[6] (REPEAT)** for more than 2 seconds.

blinks

Press and hold again to cancel.

Audio Setting



Note: The display returns to the normal mode after no operation is performed for 5 seconds (2 seconds in the Volume mode).
For immediate return to the normal mode, press **[DISP]**.

Volume
Setting range : 0 to 40
Default : 18

Push **[SEL]** to open the menu.
VOL 18

① : Up
② : Down
VOL 18

Bass
Turn the bass level up and down.
Default : 0
Setting range : –12 to +12 dB (in 2 dB step)

Push **[SEL]** to select
BASS

① : Enhanced
② : Reduced
BAS+ 6dB

Treble
Turn the treble level up and down.
Default : 0
Setting range : –12 to +12 dB (in 2 dB step)

Push **[SEL]** to select
TREBLE

① : Enhanced
② : Reduced
TRE+ 6dB

Balance
You can adjust the sound balance among the right and left speakers.
Default : CNT (Centre)
Setting range : 15 levels each

Push **[SEL]** to select
BALANCE

① : Right enhanced
② : Left enhanced
BAL L 7

Fader
You can adjust the sound balance among the front and rear speakers.
Default : CNT (Centre)
Setting range : 15 levels each

Push **[SEL]** to select
FADER

① : Front enhanced
② : Rear enhanced
FAD F 7

TA Volume Set
Traffic announcement are broadcast at the TA volume level.
Default : 18
Setting range : 1 to 40

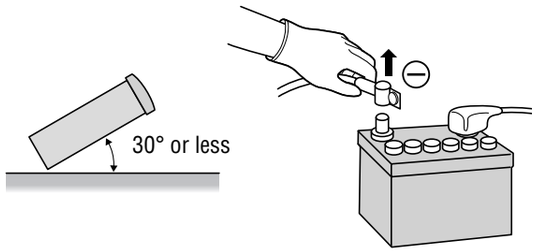
Push **[SEL]** to select
TA VOL

① : Up
② : Down
TA VOL 01 : TA volume 1
TA VOL 40 : TA volume 40

Installation

Preparation

- Before installation, check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (–) battery terminal (see caution below).
- Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

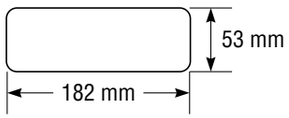


Caution: Do not disconnect the battery terminals of a car with trip or navigational computer since all user settings stored in memory will be lost. Instead take extra care with installing the unit to prevent shorts.

Dashboard Installation

Installation Opening

The unit can be installed in any dashboard having an opening as shown at right. The dashboard should be 4.5 mm - 6 mm thick in order to be able to support the unit.



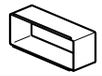
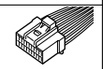
Installation Precautions

This product should be installed by a professional installer, if possible.

In case of difficulty, please consult your nearest authorized Panasonic Service Center.

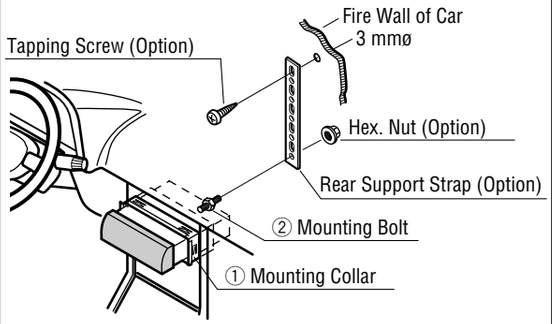
1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
2. Follow the electrical connections carefully (➡ Page 30). Failure to do so may result in damage to the unit.
3. Connect the power lead (red) after all other connections are made.
4. Be sure to connect the battery lead (yellow) to the positive terminal (+) of the battery or fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuiting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Supplied Hardware

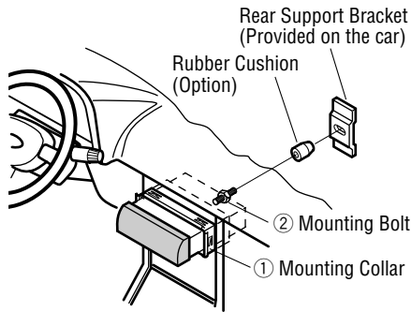
No.	Item	Diagram	Q'ty
①	Mounting Collar		1
②	Mounting Bolt (5 mmø)		1
③	Power and Speaker Connector		1
④	ISO Antenna Adapter		1
⑤	Trim Plate		1
⑥	Dismounting Plate		2

Methods for Fixing the Rear of the Unit

(a) Using the Rear Support Strap (Option)



(b) Using the Rubber Cushion (Option)



Cautions:
- **We strongly recommend that you wear gloves for installation work to protect yourself from injuries.**
- **When bending the mounting tab of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.**

First complete the electrical connections, and then check them for correctness. (➡ Page 30)

The included Mounting Collar ① is designed specially for this unit. Do not use it to attach any other model.

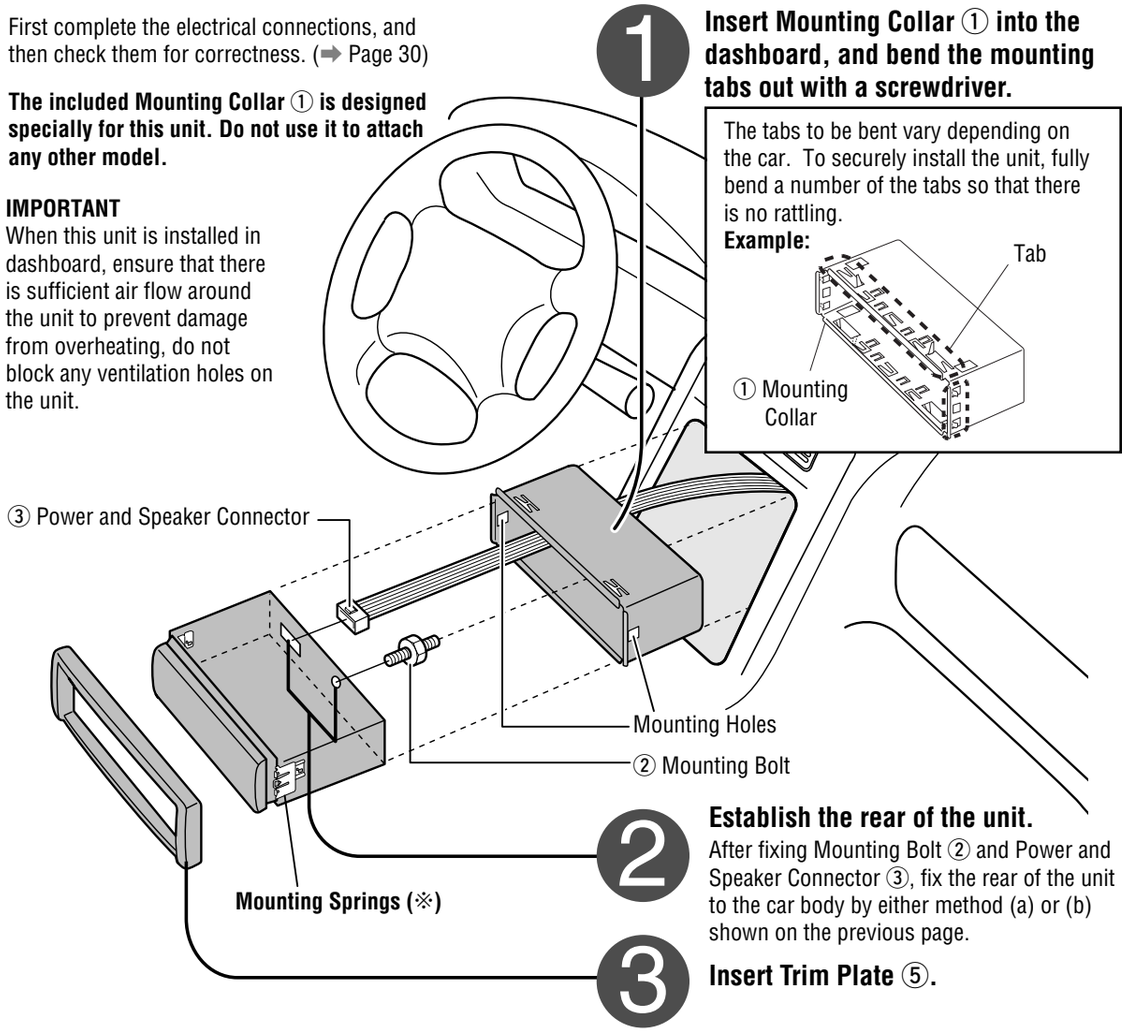
IMPORTANT

When this unit is installed in dashboard, ensure that there is sufficient air flow around the unit to prevent damage from overheating, do not block any ventilation holes on the unit.

1 Insert Mounting Collar ① into the dashboard, and bend the mounting tabs out with a screwdriver.

The tabs to be bent vary depending on the car. To securely install the unit, fully bend a number of the tabs so that there is no rattling.

Example:



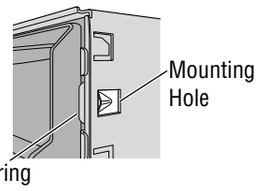
2 Establish the rear of the unit.

After fixing Mounting Bolt ② and Power and Speaker Connector ③, fix the rear of the unit to the car body by either method (a) or (b) shown on the previous page.

3 Insert Trim Plate ⑤.

4 After installation reconnect the negative (–) battery terminal.

Engage the Mounting Springs (※) in the mounting holes of the Mounting Collar ① firmly.

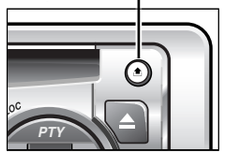


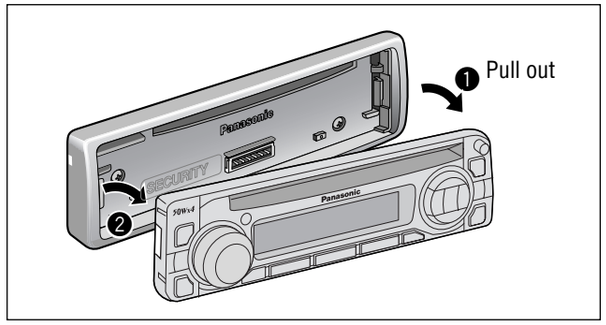
Installation (continued)

To Remove the Unit

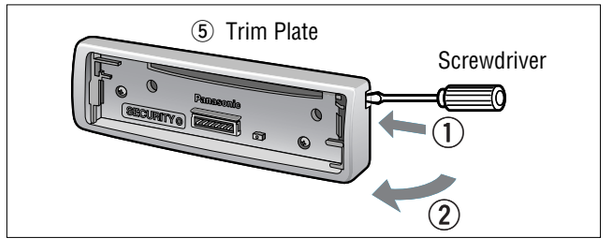
Switch off the power of the unit

1 Remove the removable face plate.
(a) Press the release button [⏏].
(b) Pull on the right side of the unit.

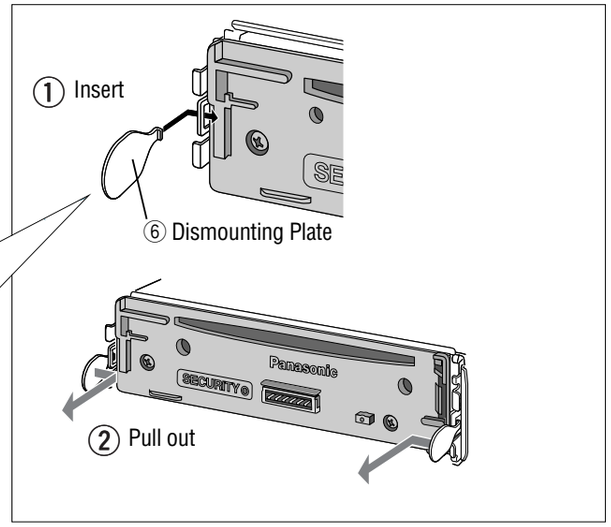




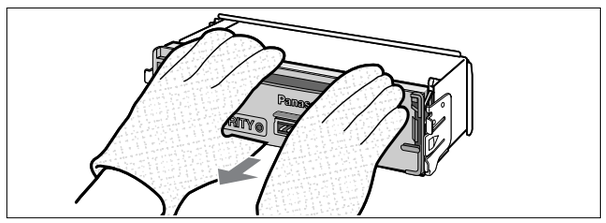
2 Remove the trim plate ⑤ with a screwdriver.



3 Pull out the unit while pushing down the lock lever with the dismounting plate ⑥.



4 Remove the unit pulling with both hands.



Cautions:
- Do not touch the contacts on the face plate or on the main unit, since this may result in poor electrical contacts.
- If dirt or other foreign substances get on the contacts, wipe them off with clean and dry cloth.

Anti-Theft System

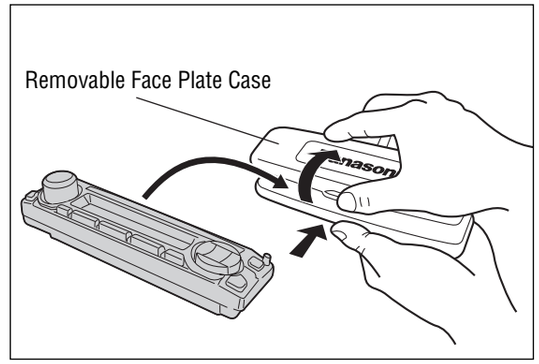
This unit is equipped with a removable face plate. Removing this face plate makes the radio totally inoperable.

Place Removable Face Plate into Case

❶ Switch off the power of the unit.

❷ Remove the removable face plate. (➡ Page 28)

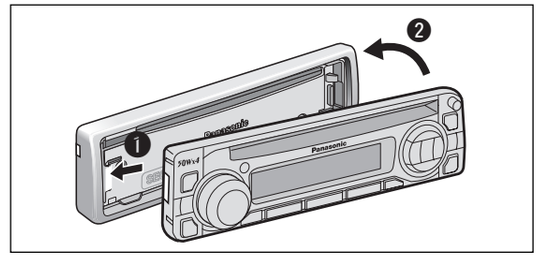
❸ Gently press the bottom of the case and open the cover. Place the face plate into the case and take it with you when you leave the car.



Cautions:
- This face plate is not water-proof. Do not expose it to water or excessive moisture.
- Do not remove the face plate while driving your car.
- Do not place the face plate on the dashboard or nearby areas where the temperature rises to high levels.

Install Removable Face Plate

❶ Slide the left side of the removable face plate in place.
❷ Press the right end of removable face plate until "click" is heard.



Panel Removal Alarm

This alarm sounds to warn you not to forget to remove the panel before leaving your car.

PANEL!

"PANEL!" is displayed and an alarm sounds when turning off the power of this unit or turning the ignition switch of your car to OFF.

Electrical Connections

Cautions:
- Check the connectors provided on your car (see precaution below) before connecting the system.
- This unit is designed for use in a car having a 12-volt negative ground battery system.
- To prevent damage to the unit, be sure to follow the connection diagram.
- Strip about 5 mm of the lead ends for connection (only non-ISO connector cords).
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires to prevent short circuiting with the car chassis. Bundle all cables, and prevent cable terminals from touching any metal parts.

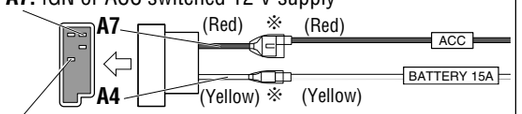
Precautions (ISO Connector)

- The pin arrangement of the power connector conforms to ISO standard.
- The pin arrangement of ISO connectors in some cars may differ from the ISO standard.
- Please check that the pin arrangement of the connector in your car conforms to ISO standard.
- For car types A and B, change the wiring of the red and yellow leads as shown at below.
- After connection, insulate the portions marked (※) with insulating tape.

Note: For cars other than types A and B, please consult your local car shop.

Standard ISO

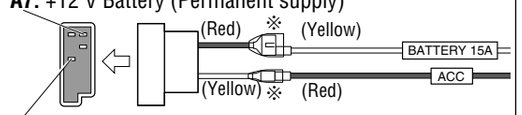
A7: IGN or ACC switched 12 V supply



A4: +12 V Battery (Permanent supply)

Car Type A

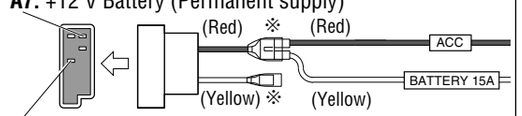
A7: +12 V Battery (Permanent supply)



A4: IGN or ACC switched 12 V supply

Car Type B

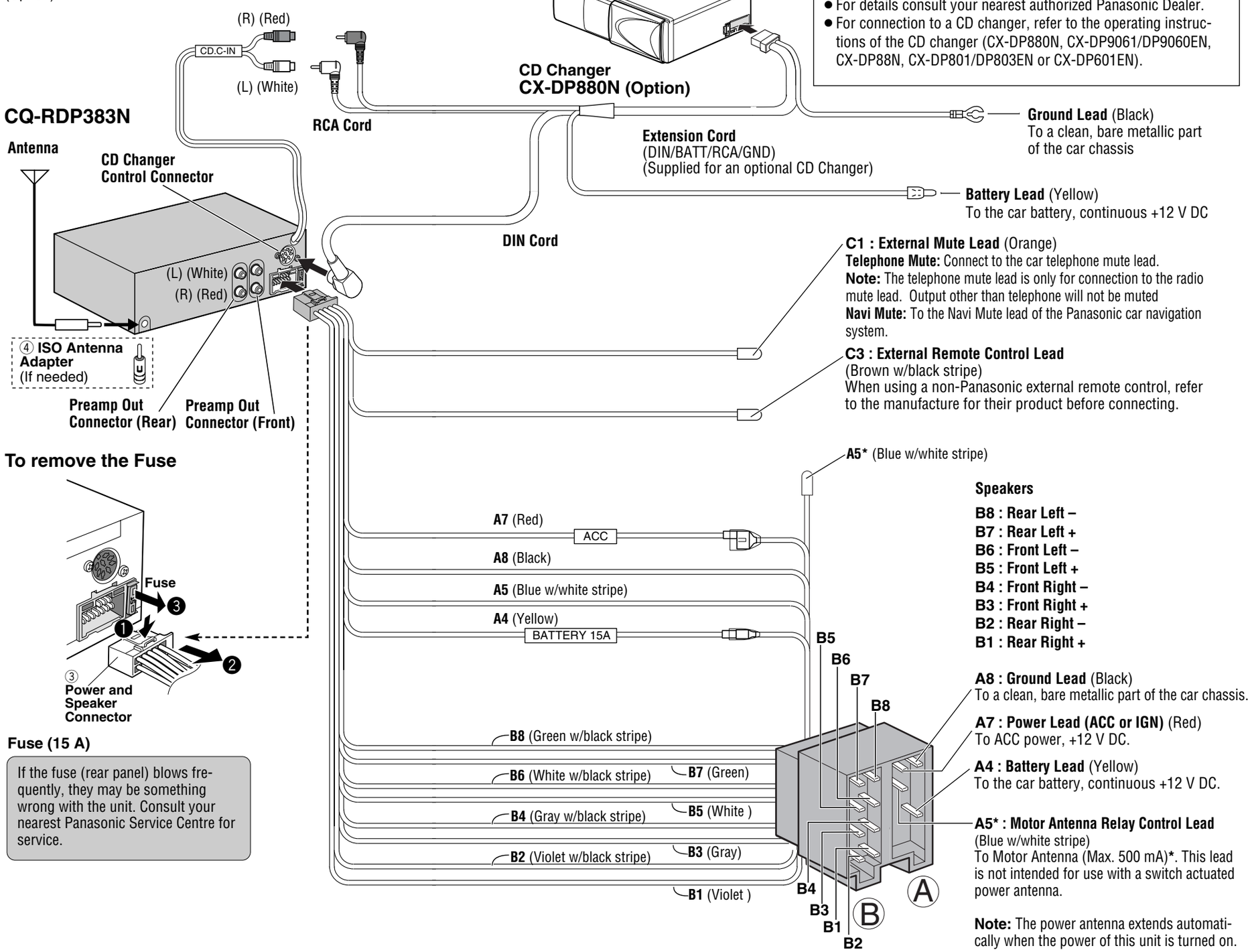
A7: +12 V Battery (Permanent supply)



A4: No connection

Wiring Diagram

Example: Connection with CD changer CX-DP880N (Option)


(R) (Red)
CD.C-IN
(L) (White)
RCA Cord
CD Changer
CX-DP880N (Option)
CQ-RDP383N
Antenna
CD Changer
Control Connector
Extension Cord
(DIN/BATT/RCA/GND)
(Supplied for an optional CD Changer)
Ground Lead (Black)
To a clean, bare metallic part of the car chassis
Battery Lead (Yellow)
To the car battery, continuous +12 V DC
DIN Cord
(L) (White)
(R) (Red)
④ ISO Antenna Adapter
(If needed)
Preamp Out Connector (Rear)
Preamp Out Connector (Front)
C1 : External Mute Lead (Orange)
Telephone Mute: Connect to the car telephone mute lead.
Note: The telephone mute lead is only for connection to the radio mute lead. Output other than telephone will not be muted
Navi Mute: To the Navi Mute lead of the Panasonic car navigation system.
C3 : External Remote Control Lead
(Brown w/black stripe)
When using a non-Panasonic external remote control, refer to the manufacture for their product before connecting.
A5* (Blue w/white stripe)
A7 (Red)
ACC
A8 (Black)
A5 (Blue w/white stripe)
A4 (Yellow)
BATTERY 15A
B8 (Green w/black stripe)
B6 (White w/black stripe)
B7 (Green)
B4 (Gray w/black stripe)
B5 (White)
B2 (Violet w/black stripe)
B3 (Gray)
B1 (Violet)
B5
B6
B7
B8
B4
B3
B1
B2
A
B
Speakers
B8 : Rear Left –
B7 : Rear Left +
B6 : Front Left –
B5 : Front Left +
B4 : Front Right –
B3 : Front Right +
B2 : Rear Right –
B1 : Rear Right +
A8 : Ground Lead (Black)
To a clean, bare metallic part of the car chassis.
A7 : Power Lead (ACC or IGN) (Red)
To ACC power, +12 V DC.
A4 : Battery Lead (Yellow)
To the car battery, continuous +12 V DC.
A5* : Motor Antenna Relay Control Lead
(Blue w/white stripe)
To Motor Antenna (Max. 500 mA)*. This lead is not intended for use with a switch actuated power antenna.
Note: The power antenna extends automatically when the power of this unit is turned on.

To remove the Fuse

Fuse (15 A)

If the fuse (rear panel) blows frequently, they may be something wrong with the unit. Consult your nearest Panasonic Service Centre for service.

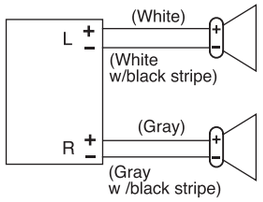
- This unit can be connected to an optional CD changer (CX-DP880N, CX-DP9061/DP9060EN, CX-DP88N, CX-DP801/DP803EN or CX-DP601EN) and optional extension cord.
- For details consult your nearest authorized Panasonic Dealer.
- For connection to a CD changer, refer to the operating instructions of the CD changer (CX-DP880N, CX-DP9061/DP9060EN, CX-DP88N, CX-DP801/DP803EN or CX-DP601EN).

A5*: This lead can be used as either Amp·Relay Control Power Lead or Motor Antenna Relay Control Lead, or both at the same time. However, the current capacity of this lead is 500 mA.

Speaker Connections

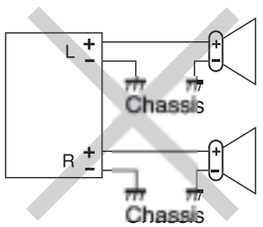
Caution: Please follow the instructions given below. Failure to do so will cause damage to the unit and speakers.

<Right>

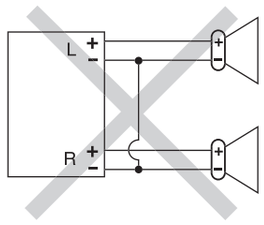


- Use ungrounded speaker only.
- The maximum speaker input should be 50 W or more. (If used with the optional power amplifier, the speaker input should be higher than the maximum amplifier output.)
- The speaker impedance should be 4 - 8 Ω.
- This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
- The speaker cords and the power amplifier unit should be kept away (about 30 cm apart) from the antenna and antenna extension cord.

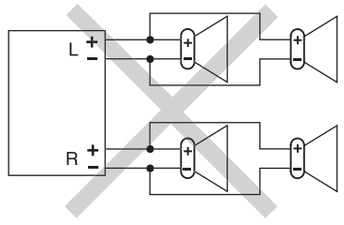
<Wrong>



- Never connect the speaker cord to the body of the car.



- Do not use a 3-wire type speaker system having a common earth lead.



- Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)

Fuse

Use fuses of the same specified rating (15 A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the unit.
If the replacement fuse fails, contact your nearest authorized Panasonic Service Centre.

Maintenance

Your product is designed and manufactured to ensure the minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner, or other solvents.

Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)

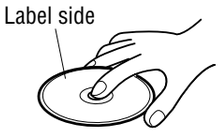
If you use commercial CDs, they must have either of these labels shown at right.

COMPACT disc DIGITAL AUDIO

COMPACT disc DIGITAL AUDIO TEXT

How to hold the disc

- Do not touch the underside of the disc.
- Do not scratch on the disc.
- Do not bend the disc.
- When not in use, keep disc in the case.



Do not use irregularly shaped discs.

Do not use irregularly shaped discs.

Do not leave discs in the following places:

- Direct sunlight
- Near car heaters
- Dirty, dusty and damp areas
- Seats and dashboards

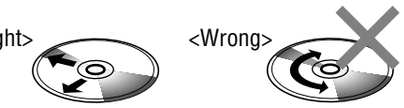
Disc cleaning

Use a dry, soft cloth to wipe from the center outward.

Do not attach any seals or labels to your discs.

Do not write anything on the disk label with a pointed pen or hard-point pen.

<Right> <Wrong>



Notes on CD-Rs/RWs

- You may have trouble playing back some CD-R/RW discs recorded on CD recorders (CD-R/RW drives), either due to their recording characteristics or dirt, fingerprints, scratches, etc. on the disc surface.
- CD-R/RW discs are less resistant to high temperatures and high humidity than ordinary music CDs. Leaving them inside a car for extended periods may damage and make playback impossible.
- Some CD-R/RWs can not be played back successfully thanks to incompatibility among writing software, a CD recorder (CD-R/RW drive) and the discs.
- This player cannot play the CD-R/RW discs if the session is not closed.
- This player cannot play the CD-R/RW discs which contains other than CD-DA or MP3/WMA data (Video CD, etc.).
- Be sure to observe the instructions of CD-R/RW disc for handling it.

Troubleshooting

Preliminary Steps

Check and take steps as described in the tables below.

If You Suspect Something Wrong

Immediately switch power off.
Disconnect the power cable and check that there is neither smoke nor heat from the unit before asking for repairs. Never try to repair the unit yourself because it is dangerous to do so.

Cautions:
- Do not use the unit if it malfunctions or something is wrong.
- Do not use the unit in an irregular condition, for example, without sound, or with smoke or foul smell, which can cause ignition or electric shock. Immediately stop using the unit and call the store where you purchased it.

Product Service

If the suggestions in the charts do not solve the problem, we recommend that you take it to your nearest authorized Panasonic Service Center. The product should be serviced only by a qualified technician.

■ Common

Problem	Possible cause/Possible solution
No power.	Car's ignition switch is not on. ➡**Turn your car's ignition switch to ACC or ON.**
	Cables are not correctly connected. ➡**Connect cables correctly.** **Battery cable: Connect the battery cable to the terminal that is always live.** **Accessory cable: Connect the accessory cable to your car's ACC source.** **Grounding wire: Connect the grounding wire to a metal part of your car.**
	Fuse is burnt. ➡**Call the store where you purchased the unit, or your nearest Panasonic Service Centre.**
No sound.	Mute is set to ON. ➡**Set it to OFF.**
	Cables are not correctly connected. ➡**Connect the cables correctly.**
	External Mute lead is not correctly connected. ➡**Connect the External Mute lead correctly.**
	Condensation (dew). ➡**Wait for a while before use.**
Noise.	The unit's ground lead is not connected securely. ➡**Check the metal areas of the car body (chassis), and connect the ground lead more securely.**
	A mobile phone is used near the unit. ➡**Keep the mobile phone away from the unit.**
Audio sound is output but the display shows demonstration message.	Demonstration mode is ON. ➡**Press [DISP] to cancel the demonstration mode.**

■ Radio

Problem	Possible cause/Possible solution
Too much noise in FM stereo and monaural (AM) broadcasts.	Station is too far, or signals are too weak. ➡**Select other stations of higher signal level.**
	The motor antenna relay control lead is not connected correctly. ➡**If there is a motor antenna in the car, connect the motor antenna relay control lead to the motor antenna lead that is installed in the car correctly.**
	The ground connection of the radio antenna is not secure enough. ➡**Check the ground connection of the mounted base part of the antenna, and tighten up the screw.**
	The radio antenna is not extended enough. ➡**Full extend the radio antenna.**
Preset station is reset.	Battery cable is not correctly connected. ➡**Connect the battery cable to the terminal that is always active.**

■ CD/MP3/WMA

Problem	Possible cause/Possible solution
Disc is in the CD compartment but no sound is made, or disc is ejected automatically.	Disc is upside down. ➡**Place disc in the correct direction with the label side up.**
	Disc is dirty. ➡**Clean disc, referring to the section on "Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)" (➡ Page 33).**
	A disc that has data other than CD-DA or MP3/WMA type is loaded. ➡**Discs that have CD-DA or MP3/WMA type data should be used.**
	➡**Some CD-R/RWs can not be played back successfully due to incompatibility among writing software, a CD recorder (CD-R/RW drive) and the discs. Refer to instructions for the concerned devices for details.**
Sound skips, bad sound quality. (e.g. caused by noise)	Disc is dirty. ➡**Clean disc, referring to the section on "Notes on CD/CD Media (CD-ROM, CD-R, CD-RW)" (➡ Page 33).**
	➡**Some CD-R/RWs can not be played back successfully due to incompatibility among writing software, a CD recorder (CD-R/RW drive) and the discs. Refer to instructions for the concerned devices for details.**
Sound skip due to vibration.	Mounting angle is over 30 degrees. ➡**Adjust mounting angle to less than 30 degrees.**
	Unstable mounting. ➡**Check if the machine is properly installed with its rear fixed securely to a firewall.**
Disc is not ejected.	● CD is defective. ● Mechanical trouble. ➡**Press [⏏]. If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Service Centre to ask for repairs.**

Troubleshooting (continued)

CD

Problem	Possible cause/Possible solution
CD text is not displayed normally.	➡**Undisplayable characters and symbols will be converted into an asterisk (✳).(➡ Page 20)**
Time is counted but no sound comes out.	➡**A disk which has both CD-DA data and MP3/WMA data on it may not be reproduced normally. (For example, it may be reproduced without sound.)**

MP3/WMA

Problem	Possible cause/Possible solution
No playback.	The disc does not conform to any of the file systems supported by this player. ➡**For supported file systems, see "Points to remember when making MP3/WMA files" (➡ Page 20).**
	There is no extension attached. ➡**For an MP3 file, attach ".mp3", and for a WMA file, attach ".wma".**
It takes too long for playback to start.	The folders and files recorded on the disc are layered too much. ➡**As checking of files takes longer in this case, do not record any unnecessary folders or files other than MP3s/WMAs on the disc. (If there are many hierarchies of files and folders, it may take up to 150 seconds to start playback.)**
Poor recording quality, sound skipping.	➡**The recording quality differs depending on the encoding software used, and on settings such as the bit rate. Set the bit rate within the range specified in the specifications chart (➡ Page 39).**
	➡**There may be a problem with your writing software or CD recorder (CD-R/RW drive). For details refer to the user manual of your writing software.**
	High-speed writing was executed when MP3/WMA data was recorded on the disc. ➡**Decrease writing speed as low as possible.**
Files are not played in the desired order.	Files or folders are not recorded in the desired playback order. ➡**Some writing software lets you specify the recording order by adding a prefix in the range of "01" - "99", etc. to the file name. For details refer to the user manual of your writing software.**
Folder / file name is not displayed correctly.	The disc does not conform to the file systems supported by this player. ➡**Insert a disc that conforms to the file systems supported by this player. For supported file systems see "Points to remember when making MP3/WMA files" (➡ Page 20).**
	➡**There may be a problem with your writing software or CD recorder (CD-R/RW drive). For details refer to the user manual of your writing software.**

MP3/WMA (Continued)

Problem	Possible cause/Possible solution
File playing time is not displayed correctly.	You ran the file in fast forward or fast reverse during playback or turned off the ignition switch of the car during playback. ➡**Playing another file will return the file playing time to normal.**
	You played a VBR (Variable Bit Rate) format MP3 file. ➡**The file playing time of VBR (Variable Bit Rate) format MP3 file is sometimes displayed incorrectly.**

Sound Setting

Problem	Possible cause/Possible solution
No sound from left, right, front, or rear speaker.	Left and right balance, or front and rear balance is off on one side. ➡**Adjust BALANCE and FADER as appropriate (➡ Page 24).**
	Cables are not correctly connected. ➡**Connect the cables correctly.**
Left and right sounds are reversed.	The right speaker lead is connected to the left speaker and the left speaker lead to the right speaker. ➡**Connect the speaker leads to the correct one.**

Troubleshooting (continued)

Error Display Messages

CD/MP3/WMA

Display	Possible cause/Possible solution
-E1-	Disc is dirty, or is upside down. A disc that has data other than CD-DA or MP3/WMA type is loaded.
-E2-	Disc has scratches.
-E3- After 5 seconds CD EJECT	No operation by some cause. ➡ Press **[⏏]**. ● **Check the disc.** ● **Load the disc again.**
* -E4-	The player for some reason cannot read the file you are trying to play. (File recorded in an unsupported file system, compression scheme, data format, file name extension, damaged data, etc.) ➡ **Select a file that the player can read. Confirm the type of data recorded on the disc. Create a new disc if necessary.**
* -E5-	A WMA file can be copyrighted. ➡ **The file protected by copyright is not playable.**
NO DISC	No disc is in the CD player. ➡ **Insert disc into the CD player.**

* If all the files cannot be played, E4 or E5 remains on the display.

CD Changer

Display	Possible cause/Possible solution
-E1- -E2- After 5 seconds **To next disc automatically**	Disc is dirty, or is upside down. A disc that has data other than CD-DA type is loaded. Disc has scratches. ➡ Eject the magazine. ● **Check disc.** ● **Load the disc again.**
-E3-	No operation by some cause. ➡ **Eject the magazine. If failure persists, press the reset switch on the CD changer. If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Service Center to ask for repairs**.
NO DISC	No disc is in the CD Changer (magazine). ➡ **Insert discs into the changer (magazine).**

Note: Messages in the action and display sections of the error chart vary with changers. Refer to the operating instructions for the CD changer for details.

Specifications

General		CD Player	
Power Supply	: DC 12 V (11 V - 16 V), Test Voltage 14.4 V, Negative Ground	Sampling Frequency	: 8 times oversampling
Tone Controls (Bass)	:±12 dB at 100 Hz	DA Converter	: 4 DAC System
Tone Controls (Treble)	:±12 dB at 10 kHz	Pick-Up Type	: Astigma 3-beam
Current Consumption	: Less than 2.5 A (CD mode, 0.5 W 4-Speaker)	Light Source	: Semiconductor laser
Maximum Power Output	: 50 W x 4 (at 4 Ω)	Wavelength	: 780 nm
Power Output	: 22 W x 4 (DIN45 324, at 4 Ω)	Frequency Response	: 5 Hz - 20 kHz (±1 dB)
Speaker Impedance	: 4 - 8 Ω	Signal to Noise Ratio	: 96 dB
Pre-Amp Output Voltage	: 2.5 V (CD mode)	Total Harmonic Distortion	: 0.01 % (1 kHz)
Pre-Amp Output Impedance	: 200 Ω	Wow and Flutter	: Below measurable limits
Dimensions	: 178 (W) x 50 (H) x 155 (D) mm	Channel Separation	: 75 dB
Weight	: 1.4 kg	MP3 decoding	: MPEG 1 Audio Layer 3 MPEG 2 Audio Layer 3
FM Stereo Radio		Bit Rate	
Frequency Range	: 87.5 - 108 MHz	(MPEG 1 Audio Layer 3)	: 32 kbps - 320 kbps, VBR (Variable Bit Rate)
Usable Sensitivity	: 6 dB/µV (S/N 30 dB)	(MPEG 2 Audio Layer 3)	: 8 kbps - 160 kbps, VBR (Variable Bit Rate)
Stereo Separation	: 35 dB (at 1 kHz)	(WMA)	: 64 kbps - 192 kbps
MW Radio		Sampling Frequency	
Frequency Range	: 531 - 1 602 kHz	(MPEG 1 Audio Layer 3)	: 32 kHz, 44.1 kHz, 48 kHz
Usable Sensitivity	: 28 dB/µV (S/N 20 dB)	(MPEG 2 Audio Layer 3)	: 16 kHz, 22.05 kHz, 24 kHz
LW Radio		(WMA)	: 32 kHz, 44.1 kHz, 48 kHz
Frequency Range	: 153 - 279 kHz		
Usable Sensitivity	: 32 dB/µV (S/N 20 dB)		

Note: Specifications and design are subject to modification without notice due to improvements.

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www.panasonic.co.uk (for UK customers only)

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon–Friday 9:00am–5:30pm. (Excluding public holidays.)
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